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Riseem STN615

Riseem Programmable Thermostat STN615 User Manual

Model: STN615

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Riseem STN615 Programmable Thermostat. This thermostat is designed to provide reliable temperature control for your home's heating and cooling systems. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

- Always turn off power to the heating/cooling system at the main fuse or circuit breaker panel before installing or servicing the thermostat.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not use this thermostat with systems that operate on voltages exceeding 30VAC.
- Keep the thermostat away from water and excessive humidity.
- This thermostat is not compatible with 110-240 volt electric baseboard heat, line voltage, convectors, radiant-ceiling heat, mini split systems, or 12V RV systems.

3. Package Contents

Verify that all items are present in your package:

- Riseem STN615 Thermostat
- Wallplate
- Two Screws and Anchors
- Installation Manual
- Operating Manual
- Cable Labels

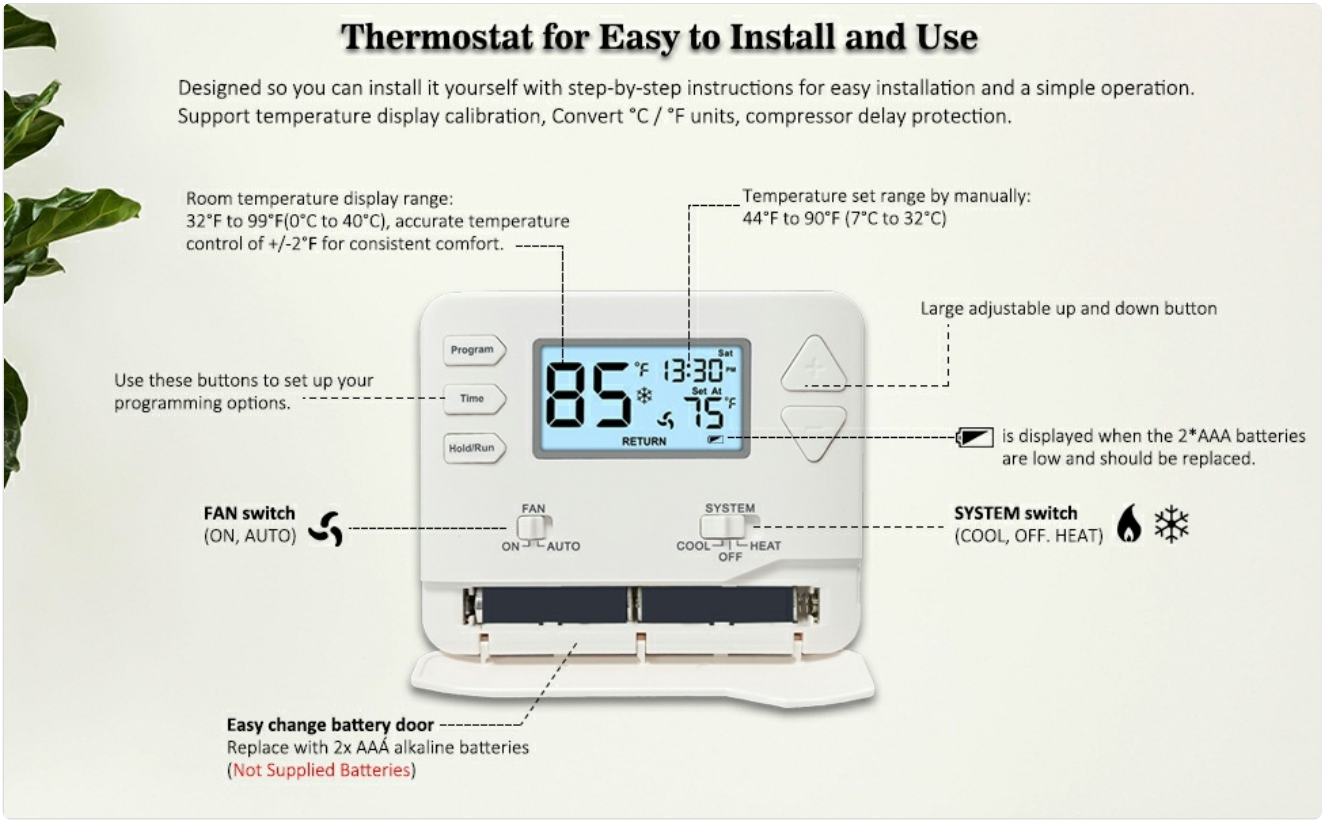


Image: Package contents showing the thermostat, installation manual, operation manual, wire tag sticker, and mounting hardware.

4. Compatibility

Compatible Systems:

- Single-stage or Multi-stage systems
- Forced air (gas, oil, or electric)
- Electric furnace
- Hot water steam or gravity radiant heat
- Heat only systems
- Heat pump without auxiliary or emergency heat
- Millivolt systems
- Gas fireplaces (24V)
- Floor or wall furnaces
- Cool only systems

Not Compatible With:

- Heat pump with auxiliary or emergency heat
- Dual fuel/hybrid heating systems
- Electric baseboard heat (110-240 volts)
- Line voltage systems
- Convectors
- Radiant-ceiling heat
- Mini split systems

- 12V RV systems

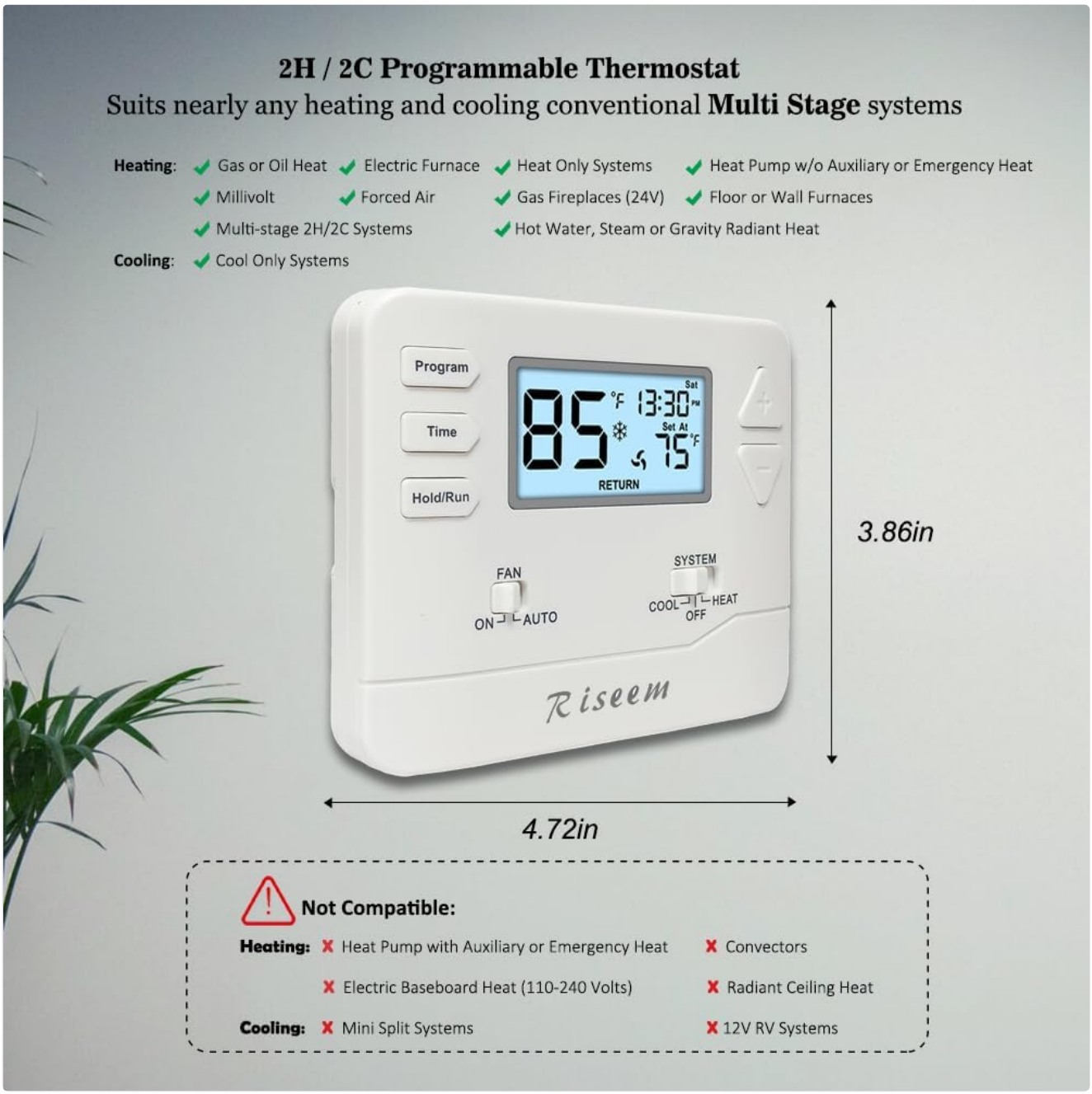


Image: Compatibility chart for the Riseem STN615 thermostat, detailing suitable and unsuitable heating and cooling systems.

5. Setup and Installation

Follow these steps to replace your old thermostat with the Riseem STN615:

1. **Step 1: Turn off power.** Locate the main fuse or circuit breaker panel and turn off the power to your heating/cooling system.
2. **Step 2: Remove old thermostat.** Carefully remove the old thermostat cover. Leave the wallplate with wires attached for now.
3. **Step 3: Label wires.** Before disconnecting any wires, use the provided cable labels to clearly mark each wire according to its terminal on the old thermostat. This is crucial for correct installation.
4. **Step 4: Mount new wallplate.** Remove the old wallplate. Mount the new Riseem STN615 wallplate to the wall using the included screws and anchors. Ensure it is level.
5. **Step 5: Connect wires.** Match the labeled wires to the corresponding terminals on the new thermostat's

wallplate. Push each wire firmly into its terminal.

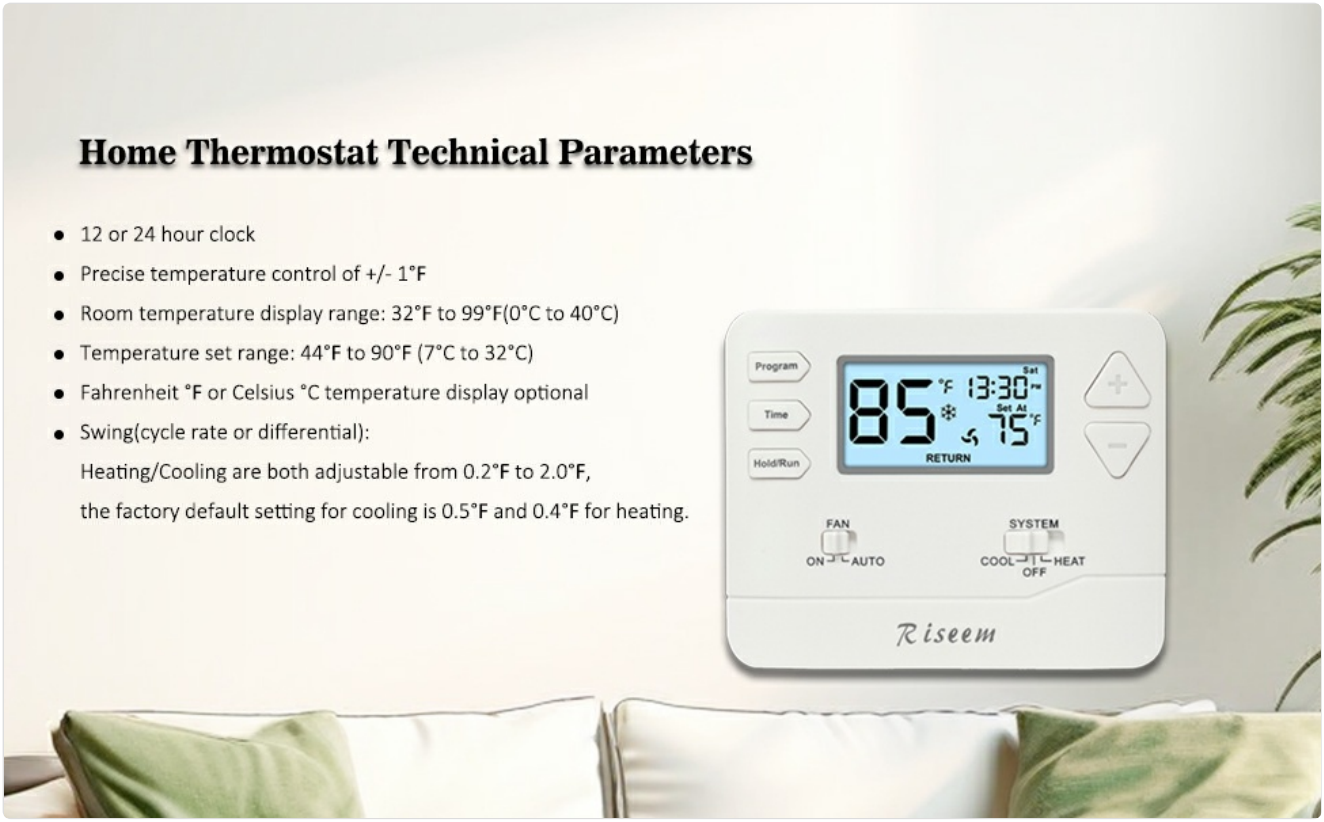


Image: Visual guide for thermostat replacement, illustrating the five key installation steps.

Power Supply:

The Riseem STN615 thermostat can be powered by either a 24VAC power source (C-wire) or by 2 AAA alkaline batteries. A common wire (C-wire) is not required on most systems, but it is necessary for heat-only and cool-only systems. If a C-wire is available, the batteries provide a backup power source in case of an outage.

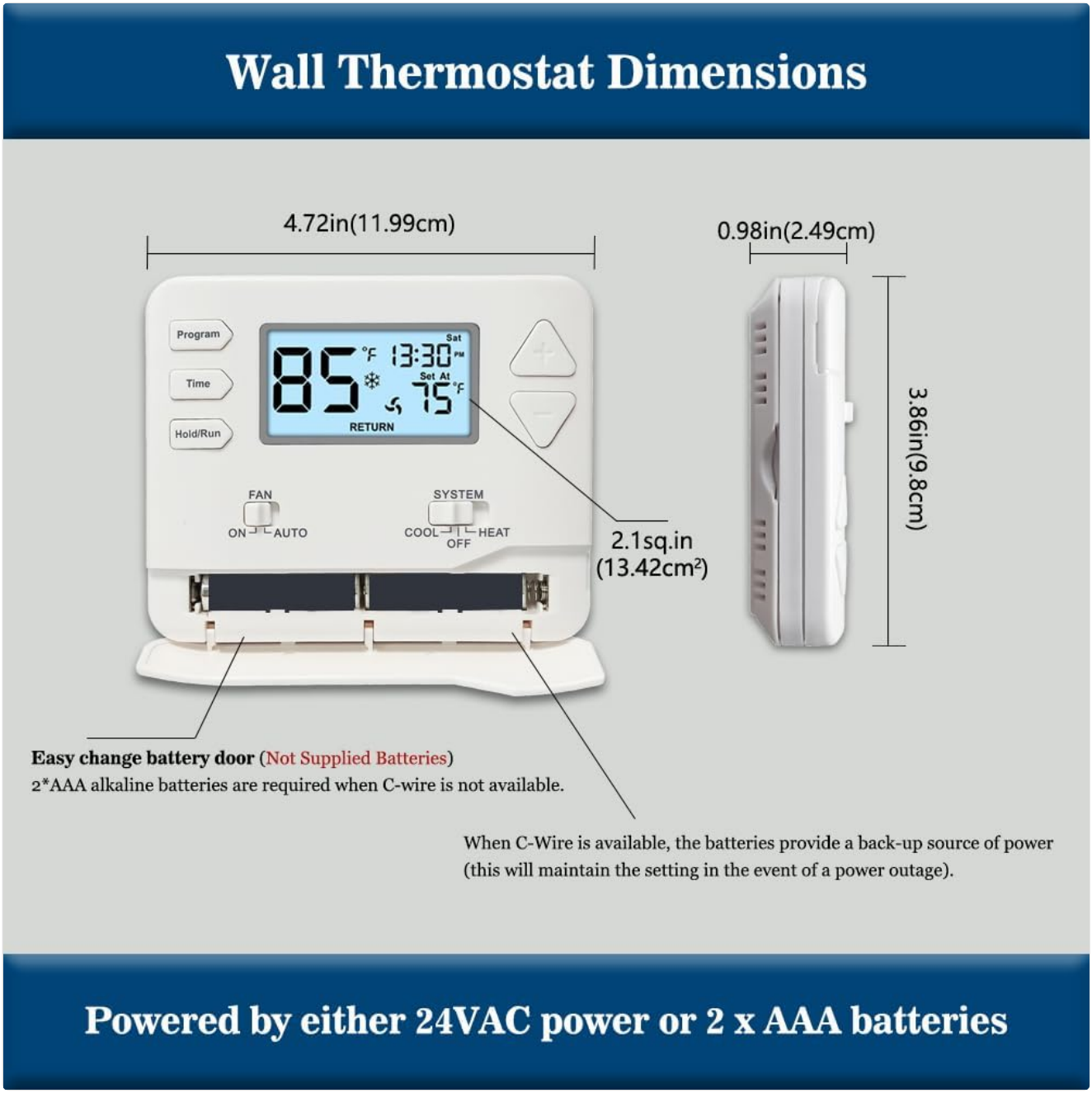


Image: Thermostat dimensions and the easy-access front-load battery compartment for 2 AAA batteries.

6. Operating Instructions

The Riseem STN615 features a clear, easy-to-read backlight LCD display and intuitive controls.



Image: Front view of the thermostat showing the digital display and control buttons.

Controls and Display:

- **Program Button:** Used to enter and adjust programming schedules.
- **Time Button:** Used to set the current time and day.
- **Hold/Run Button:** Toggles between programmed schedule and temporary hold.
- **Up/Down Buttons:** Adjust temperature settings and navigate menu options.
- **FAN Switch (ON/AUTO):**
  - **ON:** Fan runs continuously.
  - **AUTO:** Fan runs only when heating or cooling is active.
- **SYSTEM Switch (COOL/OFF/HEAT):**
  - **COOL:** Thermostat controls cooling.
  - **OFF:** Heating and cooling systems are off.
  - **HEAT:** Thermostat controls heating.
- **LCD Display:** Shows current room temperature, set temperature, time, day, system mode, fan status, and programming indicators.

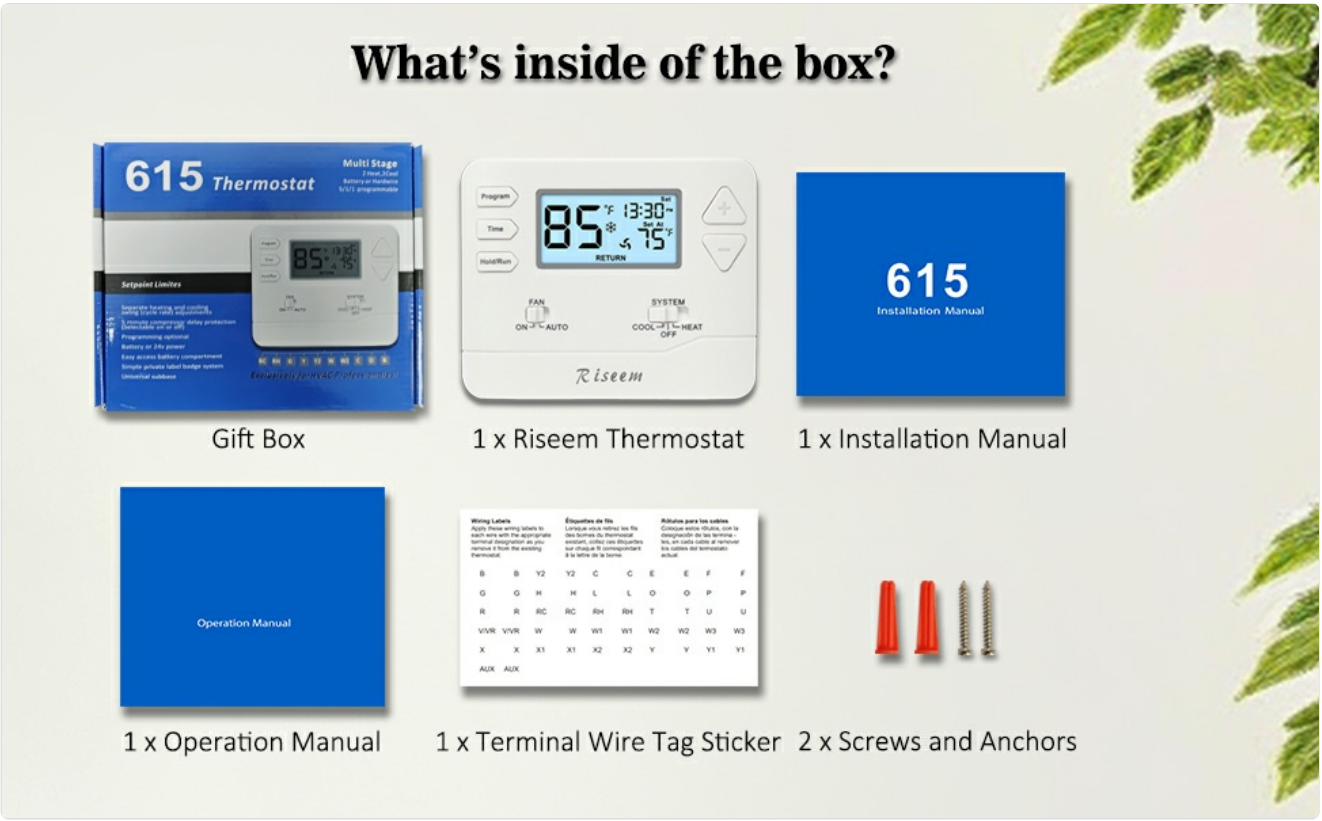


Image: Detailed view of the thermostat's user interface, explaining the function of each button and switch.

7. Programming

The STN615 features a 5-1-1 day programmable schedule, allowing you to set different temperature schedules for weekdays, Saturday, and Sunday. This helps optimize energy usage and comfort.

Key Programming Features:

- **5/1/1 Day Programming:** Set distinct schedules for weekdays (Monday-Friday), Saturday, and Sunday.
- **Adjustable Temperature Differential (Swing):** Customize the temperature range before the system activates, optimizing energy use and system lifespan.
- **Temperature Display Calibration:** Adjust the displayed temperature to match an external reference thermometer if needed.
- **°C/°F Conversion:** Easily switch between Fahrenheit and Celsius temperature units.
- **Compressor Delay Protection:** A selectable on/off feature that protects your compressor from short cycling.

Refer to the included Operating Manual for detailed step-by-step instructions on setting the time, programming schedules, and adjusting advanced settings.

8. Maintenance

Battery Replacement:

The thermostat requires 2 AAA alkaline batteries for operation (if not using 24VAC power) or as a backup. A low battery indicator will appear on the display when batteries need to be replaced. To replace, open the front-load battery compartment and insert new batteries, ensuring correct polarity.

Cleaning:

Wipe the thermostat's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.

9. Troubleshooting

- **No Display/No Power:** Check if the power to the HVAC system is on. If using batteries, ensure they are new and correctly installed. If using 24VAC, verify the C-wire connection.
- **System Not Responding:** Ensure the SYSTEM switch is set to HEAT or COOL, not OFF. Check wiring connections. Allow for compressor delay protection if recently switched modes.
- **Incorrect Temperature Reading:** The thermostat may need calibration. Refer to the Operating Manual for temperature calibration instructions.
- **Fan Not Running:** Check the FAN switch setting. If set to AUTO, the fan will only run when heating or cooling is active. Set to ON for continuous operation.
- **Programming Issues:** Ensure the current time and day are set correctly. Review the programming steps in the Operating Manual.

10. Specifications

Feature	Specification
Model Name	STN615
Product Dimensions	0.98"D x 3.86"W x 4.72"H (2.49cm D x 9.8cm W x 11.99cm H)
Item Weight	6.2 ounces
Power Source	24 Volts (AC) or 2 AAA batteries (not included)
Temperature Control Type	24V Conventional Multi-Stage Thermostat (2 Heat/2 Cool)
Room Temperature Display Range	32°F to 99°F (0°C to 40°C)
Temperature Set Range	44°F to 90°F (7°C to 32°C)
Temperature Accuracy	+/- 1°F
Display Type	LCD with Backlight
Control Method	Button Control
Programming	5-1-1 Day Programmable
Special Features	Separate Heating and Cooling Swing (Cycle Rate), Low Battery Indicator, Temperature Calibration, °C/°F Conversion, Compressor Delay Protection

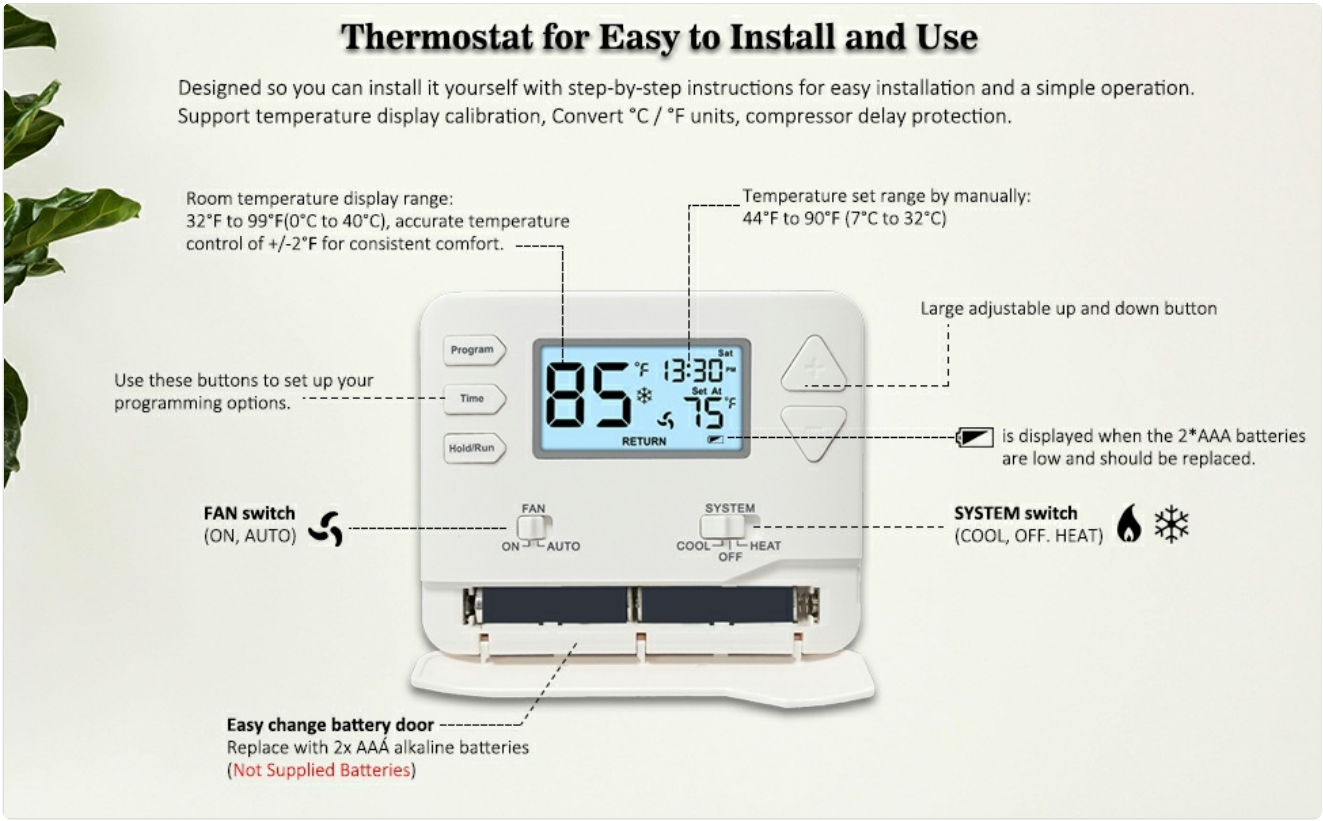


Image: Overview of the thermostat's technical specifications and features.

11. Warranty and Support

Riseem products are manufactured with quality and reliability in mind. For warranty details and customer support, please contact the manufacturer directly. Riseem offers 7*24 hours customer service to assist with any inquiries or issues you may encounter.

For assistance, please refer to the contact information provided with your product packaging or visit the official Riseem website.

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Example: How do I reset this device or fix this error?

Details

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